CLAIMS

A method of managing a computer information database that contains computer

1.

2	profile data for computers, the method including the steps of:
3	A. determining a tree structure of groups for the computers based on primary
4	grouping criteria and secondary grouping criteria;
5	B. including in a database mapping table fields that correspond to primary
6	grouping criteria and secondary groupings criteria for the computers, and including in the
7	fields in respective table records values for profile data of interest that correspond to the
8	primary groupings and secondary groupings, the table further including in the records
9	information that identifies the respective groups to which the values apply;
10	C. receiving for inclusion in the database computer profile data from a plurality of
11	computers;
12	D. for the profile data from a given computer
13	extracting data that corresponds to the profile data of interest for the pri-
14	mary groupings and the secondary groupings,
15	querying the table to determine if the extracted data correspond to the val-
16	ues that are included in the primary grouping and secondary grouping fields in
17	any of the records in the table, and
18	if the query results in one or more table records that include secondary low
19	values, assigning the computer to the group named in the first record found,
20	if the query results in no records, assigning the computer to a default
21	group, or
22	if the query results in multiple records and there are no corresponding sec-
23	ondary low values in the records, assigning the computer to the group in the last
24	record found; and
25	E. manipulating the data from the database to produce reports that summa-
26	rize the attributes of the computers in the groups, with each report for a given
27	group including therein the attributes of the computers in the gruops that are on a
28	sub-tree with the given group as its root

- 2. The method of claim 1 wherein one or more table records includes secondary grouping
- values set to NULL.
- 3. The method of claim 1 wherein the values associated with the primary groupings are
- ranges and the step of determining if the extracted data correspond to the values further
- includes determining if the corresponding extracted data of interest falls within one of the
- 4 primary grouping ranges.
- 4. The method of claim 3 wherein the values associated with the secondary groupings are
- 2 ranges and the step of determining if the extracted data correspond to the values further
- includes determining if the corresponding extracted data of interest falls within one of the
- 4 secondary grouping ranges.
- 5. The method of claim 1 wherein the step of querying further includes determining if the
- 2 extracted data corresponds to the primary grouping criteria and a secondary low value of
- 3 NULL or the empty set.
- 6. The method of claim 1 wherein the primary and secondary grouping criteria are user-
- 2 specified.
- 7. A method of managing a computer information database that contains computer profile
- data for computers, the method including the steps of:
- A. determining a tree structure of groups for the computers based on primary
- 4 grouping criteria;
- B. including in a database mapping table fields that correspond to a range of val-
- 6 ues for profile data of interest corresponding to primary grouping criteria used to include
- the computers in groups for profile data reporting, and including in the fields in respec-
- stive table records high and low values for the primary grouping profile data of interest,
- 9 the table further including in the records information that identifies the respective groups
- to which the values apply;

11	C. receiving for inclusion in the database computer profile data from a plurality of
12	computers;
13	D. for the profile data from a given computer
14	extracting data that correspond to the primary grouping profile data of in-
15	terest,
16	querying the table to determine if the extracted data fall withing the pri-
17	mary grouping criteria ranges included in the table records, and
18	if the query results in one or more table records assigning the computer to
19	the group named in the first record found, or
20	if the query results in no records, assigning the computer to a default
21	group; and
22	E. manipulating the data from the data base to produce reports that summarize the
23	attributes of the computers in the groups, with the report for a given group in-
24	cluding therein the attributes of the computers in the groups that are on a sub-tree
25	with the given group as its root.
1	8. The method of claim 1 further including the steps of
2	including in the table a range of values for profile data of interest corresponding
3	to secondary grouping criteria used to include the computers in groups for profile data
4	reporting, and including in the fields in respective table records high and low values for
5	the secondary grouping profile data of interest, and
6	for the profile data from a given computer
7	further extracting data that correspond to the secondary grouping profile
8	data of interest,
9	further querying the table to determine if the further extracted data fall
10	withing the secondary grouping criteria ranges included in the table records, and
11	if the query results in one or more table records that include secondary low
12	values, assigning the computer to the group named in the first record found,
13	if the query results in no records, assigning the computer to a default
14	group, or

- if the the query results in multiple records and there are no corresponding secondary low values in the records, assigning the computer to the group in the last record found.
- 9. The method of claim 8 wherein the step of querying further includes determining if the
- 2 extracted data corresponds to the primary grouping criteria and a secondary low value of
- 3 NULL or the empty set.